

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"5113869".pn. and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/19 11:51
L2	1	"5113869".pn. and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/19 11:53
L3	1	"5113869".pn. and (electrode same impedance)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/19 12:05
L4	20	"5995858"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/19 12:06
L5	2	"5995858".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/19 12:17
L6	2	"6407987".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/19 12:17
S1	13	"5995858"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/03 14:54
S2	2	("5995858").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/09/16 13:54
S3	22	(spread adj1 spectrum) and ((random near3 number) same clock same divid\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 18:55
S4	2	("5792668").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/09 18:55
S5	4	("3909721").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/14 12:22

## EAST Search History

S6	2	("4623890").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/14 12:23
S7	2	("6314129").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/14 12:23
S8	65	(random\$4 with clock) same (select with frequencies)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 14:02
S9	1	(random\$4 with clock) same (select with frequencies) and (measur\$4 with (spread adj1 spectrum))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 13:55
S10	33	(spread adj1 spectrum) same (physiological)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 14:06
S11	33	((spread adj1 spectrum) same (physiological)) and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 14:17
S12	17	"5792668"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 18:01
S13	13	S12 and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:22
S14	42	(generat\$4 with (random adj1 numbers)) same (divid\$4 with (clock adj1 signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:28
S15	50	(random adj1 number) same (divid\$4 with (clock adj1 signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:28
S16	8	S15 not S14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:31
S17	130	random with (divid\$4) with (clock adj1 signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:32

## EAST Search History

S18	2	375/130-153.ccls. and random with (divid\$4) with (clock adj1 signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:33
S19	130	random with (divid\$4) with (clock adj1 signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:46
S20	5	"6494829"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:47
S21	2	"6407978"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:47
S22	11	"6407987"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 15:48
S23	2	"5792668".PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 14:18
S24	1	S23 and computer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 18:17
S25	1	S23 and computer and interference	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 18:17
S26	1	S23 and computer and error	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 19:23
S27	2	("5792668").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/03 14:56
S28	1890	(spread adj1 spectrum) with random	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 14:57
S29	122	(spread adj1 spectrum) with (random near3 frequencies)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 14:57

## EAST Search History

S30	1	(spread adj1 spectrum) with (random near3 frequencies) and physiological	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 14:58
S31	122	(spread adj1 spectrum) with (random near3 frequencies)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:05
S32	2	("6407987").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/04 11:33
S33	23	(spread adj1 spectrum) same ((select\$4 or choos\$4) with (random near3 frequencies))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:06
S34	60	(spread adj1 spectrum) and ((random adj1 number) same divid\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/03 15:19
S35	67	(spread adj1 spectrum) and ((random adj1 number) same divid\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:22
S36	26	(frequency adj1 hop) same (random adj1 number)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:23
S37	0	(frequency adj1 hop) same ((random adj1 number) same divid\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:24
S38	37	(frequency adj1 hop) same ((random) same divid\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:23
S39	11	(frequency adj1 hop) and ((random adj1 number) same divid\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:50
S40	33	((random near3 frequencies) same (clock adj1 signal)) and (frequency adj1 hop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:56
S41	18	(frequency adj1 hop) and (random same divid\$4 same clock)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:56

## EAST Search History

S42	2	("3291908").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/03 15:54
S43	110	(spread adj1 spectrum) and (random same divid\$4 same clock)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:56
S44	109	S43 not S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 15:57
S45	98	S44 not S41	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/03 17:42
S46	2	("5792668").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/03 18:30
S47	1	S46 and (noise or intereference)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/03 18:31
S48	37	(spread adj1 spectrum) same physiological	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/04 11:53
S49	13	(frequency adj1 hop\$4) same physiological	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/04 11:53
S50	0	S49 and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/04 11:40
S51	62	(spread adj1 spectrum) same ultrasound	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/04 11:53
S52	62	(spread adj1 spectrum) same ultrasound	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 13:00
S53	62	S52 and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 12:36

## EAST Search History

S54	2	("6622560").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/04 12:37
S55	1	"6350240".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:36
S56	0	S55 and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/04 12:37
S57	1	"6343510".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:40
S58	1	"6309356".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:40
S59	1	"6155980".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:41
S60	1	"6010456".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:53
S61	1	"5964706".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:57
S62	1	"5964706".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:57
S63	1	"5938611".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:57
S64	1	"4848354".PN.	USPAT; USOCR	OR	OFF	2006/03/04 12:57
S65	175	(spread adj1 spectrum) same ultrasonic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 13:00
S66	15	((spread adj1 spectrum) same ultrasonic) and (heart)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 13:02
S67	15	((spread adj1 spectrum) same ultrasonic) and (heart) and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 13:08
S68	49	random near3 (Barker adj1 code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 13:36
S69	20	(ultrasonic) same (frequency adj1 hop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 13:37

## EAST Search History

S70	2	("5995858").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/04 13:41
S71	2	"5792668".PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 14:19
S72	1	S71 and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 14:45
S73	2	(ultrasound) same (random adj1 frequencies)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/04 14:45
S74	38	(spread adj1 spectrum) same physiological	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 15:33
S75	2	("5381798").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 15:37
S76	2	("5792668").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 15:38
S77	1	375/130-153.ccls. and physiological	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 15:39
S78	17	375/130-153.ccls. and patient	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 15:41
S79	12	600/301.ccls. and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 15:41
S80	12	600/301.ccls. and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:43
S81	19	600/316-328.ccls. and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 16:28

## EAST Search History

S82	19	S81 not S80	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:47
S83	9	(spread adj1 spectrum) near4 patient	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:50
S84	10	(spread adj1 spectrum) near4 physiological	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:51
S85	3	(spread adj1 spectrum) near4 (heart)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:51
S86	4	(spread adj1 spectrum) near4 (blood)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/21 07:43
S87	0	(spread adj1 spectrum) near4 (respiration)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:51
S88	0	(spread adj1 spectrum) near4 (contact near3 impedance)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:51
S89	16	(spread adj1 spectrum) near4 (contact)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:51
S90	21	(spread adj1 spectrum) near4 (impedance)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:52
S91	16	(spread adj1 spectrum) near4 (tissue)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:52
S92	60	S85 or S86 or S89 or S90 or S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/18 15:52
S93	17	600/442-447.ccls. and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/08 16:20



## EAST Search History

S94	1	(physiological same despread\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/21 07:43
S95	0	(physiological same de-spread\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/21 07:43
S96	0	(despread\$4) near4 (blood)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/21 07:44
S97	0	(despread\$4) same (blood)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/21 07:44
S98	0	(despread\$4) same (tissue)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/21 07:44
S99	0	(despread\$4) same (oxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/21 08:04
S10 0	0	("20020136264.pn.").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/21 08:38
S10 1	2	("20020136264").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/21 08:38
S10 2	0	S101 and (despread\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/21 08:38
S10 3	0	S101 and (de-spread\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/21 08:38
S10 4	11	XAUI adj1 receiver	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 13:44
S10 5	11	("XAUI" adj1 receiver)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 13:45

## EAST Search History

S10 6	428	("XAUI")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 13:45
S10 7	3	("XAUI").ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 13:50
S10 8	87	("XAUI") same lanes	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 18:23
S10 9	3	(parallel near3 inteference)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 18:24
S11 0	2246	(parallel near3 interference)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 18:24
S11 1	362	(parallel near3 interference) and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 18:24
S11 2	43	cancel\$4 near3 (parallel near3 interference) and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/22 18:24
S11 3	59	375/130-153.ccls. and ((spread adj1 spectrum) same (body or human or patient))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/08 16:16
S11 4	33	(600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls.) and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/08 16:31
S11 5	6111	(600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls.) and ((pseudorandom or pseudo-random) adj2 code or signal or sequence)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 16:37
S11 6	12	(600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls.) and ((pseudorandom or pseudo-random) adj2 (code or signal or sequence))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/08 16:32

## EAST Search History

S11 7	4	((("5843139") or ("5683432")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/11/09 08:44
S11 8	45	(spread adj1 spectrum) same physiological	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 16:28
S11 9	283	(600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls.) and (cross-correlat\$4 or crosscorrelat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 16:52
S12 0	47	(600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls.) and ((cross-correlat\$4 or crosscorrelat\$4) same (transmit\$4 or transmission) same (receiv\$4 or reflect\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 17:36
S12 1	84	(electrodes same (spread adj1 spectrum))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 17:01
S12 2	47	(electrodes with (spread adj1 spectrum))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 17:04
S12 3	101	(electrodes with (spread adj1 spectrum)) and (spread adj1 spectrum)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 17:22
S12 4	3	(spread adj1 spectrum) near2 Golay	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 17:37
S12 5	8	(spread adj1 spectrum) near4 Golay	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 17:37
S12 6	18	(impedance same (crosscorrelat\$4 or cross-correlat\$4)) and (heart or respiration)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 18:38